

REMARKS

Claims 12 and 13 stand rejected under 35 U.S.C. § 102(b) as being anticipated by Coppola. Applicants respectfully traverse this rejection, because the cited reference does not disclose (or suggest) at least two notch filters that exhibit asymmetrical gain changes on opposite sides of a cutoff frequency thereof.

As described in claim 12, the present invention includes two notch filters 202 and 204 (see Fig. 9) which exhibit asymmetrical gain changes on opposite sides of a cutoff frequency. The frequency characteristics of these filters are shown in Figs. 11A and 12A.

These two asymmetrical notch filters are combined in the present invention so as to achieve a predetermined notch filter characteristic that has sufficiently deep gains of 30dB, for example, at the cutoff frequencies as shown in Fig. 14A. This contrasts with the frequency characteristics shown in Fig. 16A that are made by combining normal symmetrical notch filters as shown in Fig. 15A.

Figs. 2A-2C of Coppola merely illustrate line spectrums, and fail to show the frequency characteristic curve of each filter. No filter having asymmetrical gain changes is even shown. Further, Figs. 5A, 5B, 6A, 6B, 7A and 7B illustrate the spectrum of an input signal of the notch filter network in comparison with the spectrum of the output signal. Again, a filter having asymmetrical gain changes is not shown. For these reasons, claims 12-14 are allowable over Coppola.

Claim 14 stands rejected under 35 U.S.C. § 103(a) as being unpatentable over Coppola. Applicants respectfully traverse for the reasons given above with respect to the rejection of claim 12, from which claim 14 depends, and for the additional features described in claim 14.

For all of the above reasons, Applicants request reconsideration and allowance of the claimed invention. The Examiner should contact Applicants' undersigned attorney if a telephone conference would expedite prosecution.

Respectfully submitted,

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